



So What? How Cigital Approaches Risk Management

Jeffery Payne
Chief Executive Officer
Cigital, Inc.

jepayn@cigital.com



Software Confidence. Achieved.

www.cigital.com
info@cigital.com
703 404 9293

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About Cigital

- Cigital helps organizations improve the quality and security of their software applications
- Focused on software assurance since 1992
- Cigital Labs – cutting edge software quality research laboratory





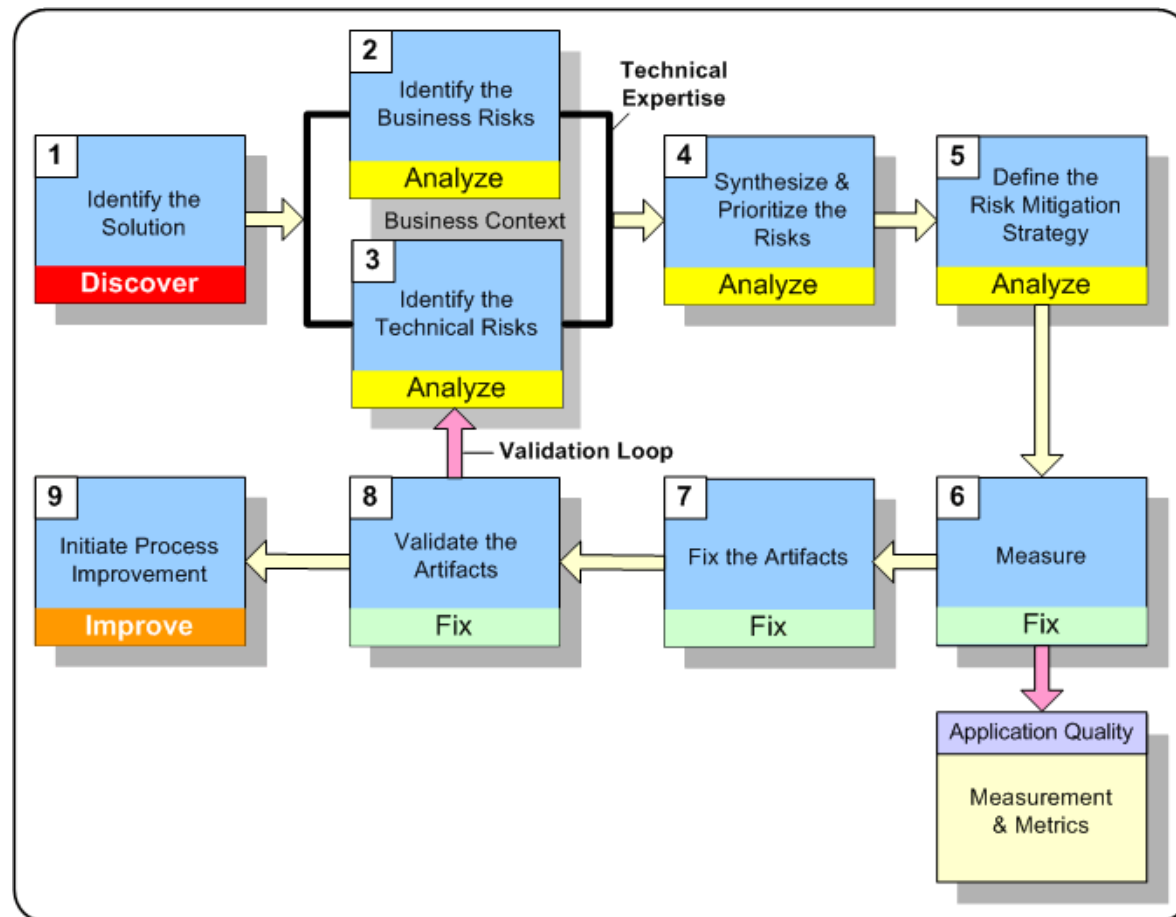
Risk Management is the Cornerstone of our Business

- Why?
 - RM provides our quality assurance/IV&V methodology a means of assuring systems of differing levels of criticality
 - RM drives selection of validation techniques and associated exit criteria based upon risk and consequence of failure
 - Risk is a great metric to track for both delivery and sales!
 - Answers the 'So What' question

So What?

- Identifying defects, flaws, issues, vulnerabilities, bugs, untestable features, missing requirements, potential problems, poor process, poor management, etc. is often not enough to spark action on the development side of the house.
- Need to tie issues to a consequence of failure to demonstrate why such issues must be addressed.
- Why?
 - Developers only want to fix what needs to be fixed
 - Budgets are always tight
 - Business executives only care about items that impact the bottom line
 - Sarbanes-Oxley says so ;-)

Our Risk Management Approach for Software

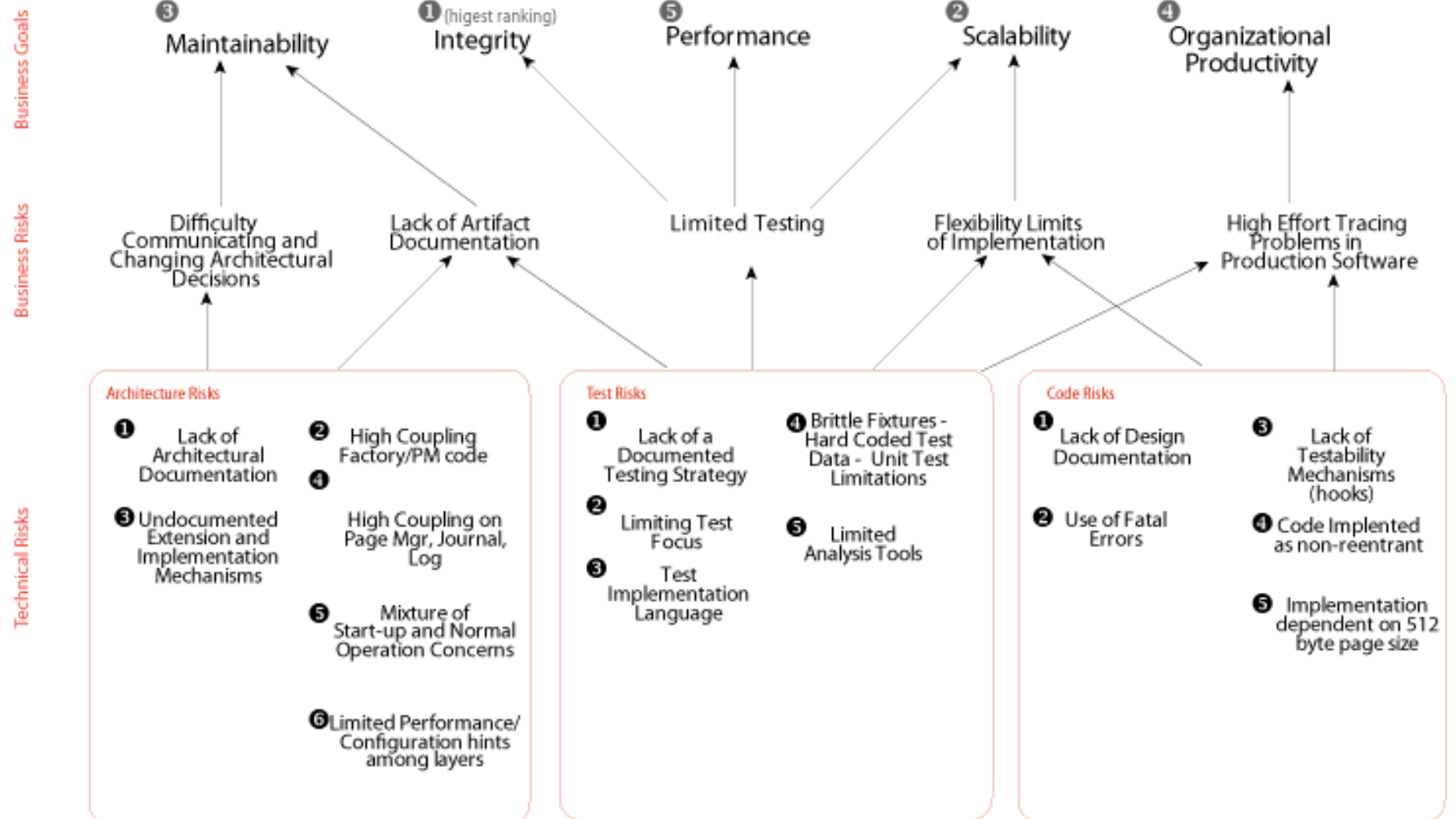




Keys to Software Risk Management

- *Go Deep* – Identify deep technical risks in the artifacts
- *Categorize* – Relate risks together so as not to overwhelm your customer
- *Answer So What* - Tie to business consequence and goals
- *Demonstrate* – Show a key vulnerability for effect
- *Help Improve* – Create a roadmap that incrementally reduces risk and improves the product

Goals to Risks Mapping





The Cigital Workbench™

Control
Risk Management

Manageability
Dashboard
- Risk
- Artifact quality & security
- Process metrics

Measurement and Metrics

Predictability
Processes & analysis rules

Insight & Understanding
Knowledge & Expertise

SDLC
Activities

Artifact
Quality

Process
Improvement

...
Risk
Mitigation

Best Practices

Knowledge

Process



Thank you for your time



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